---------Interactive Whiteboard---------

Specification

iTech Series Interactive Whiteboard-Specification

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Company Introduction：

SHENZHEN ITECH SOLUTIONS CO LTD was established in 2013 which is a global leading provider of innovative e-class solution together with electronic display device and software. We are specialized in developing, producing and selling interactive devices since 2010. Equipped with flexible, professional and innovative team members, we are capable to provide you with cutting-edge interactive devices as well as customized solutions.

Location:

iTech is located in the heart of China Technology Capital (Shenzhen), Guangdong, China

iTech Goal:

To introduce to the world the latest touch solutions that could improve a better living to the communities world wide.

iTech Tools:

We had gathered all the interactive touch technologies used in the world today, and we had studies them throughly, then we came up with our own concept of serving the market with great solutions that are reliable, affordable and sustainable.

We dedicated to designing, developing and manufacturing a wide range of ：

Interactive whiteboards；
Interactive touch screen；
Touch TV;
Advertising standing machine.

We help our customers and cooperation partners to gain the target by offering our best hi-tech products and qualified professional services!。

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Products Summary：

Interactive whiteboard is the revolution of classroom whiteboard in the 21st century, it is in use of stable and reliable infrared sensor positioning technology, and any non-transparent objects such as fingers can touch the board to run writing performance, especially, specific flat-panel material supports projection with slot color, large viewing angel and without light spot. Ordinary marker pen can write on the board and written objects can be easily cleaned with less of remnants.

Interactive whiteboard connects with a general computer by a USB cable, the display output of computer can be projected on the whiteboard through a projector. After calibration, touch and tracking information from the board will be transferred into pointer click and movement of the mouse, and by our own software or other program, all click, tracking and writing information will be displayed on the board at real time.

Interactive whiteboard hardware features: (Pls refer to detailed Hardware Chapter)

- Any solid untransperant objects can be used on the board;
- No light spots, to protect user's eyes;
- It could be used also as a traditional white board using water pen for writing.
- Responses to finger-gesture.
- Service life is 11 years;
- Modern and durable design and structure for easy maintenance if needed
- Scratches on the board surface will not affect the use of the board;

Interactive whiteboard software features: (Pls refer to detailed Software Chapter)

- Free upgrade for life;
- Offering free resource download website;
- Supports diverse resource database self-defined by common format files, no limit to the number of resource;
- Marking play-status of Microsoft PowerPoint;
- Catching and marking any desktop contents (files can be printed)
- Audio , video recording and playback function
- Users can expand the application functionality themselves
- Multi-touch, gesture recognition, and so on functions make the operation are more human and convenient.
- Recognizable to hand-gesture.
- Supporting to insert images, animation, video and other files
- Supporting to self-defined shortcut button function

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Products' Name Rule :

ITS-XX-R

- ITS - for the product line iTech solutions whiteboard series.
- XX - for products' panel diagonal size or full projection size, Now the standard size is 78",87",88",92",105",120"
- R - for frame type, now we have R and H frame;

Example : ITS-78-R

Means 78 inch interactive whiteboard with R frame.

Frame Material Description :

All the frame of the boards are Aluminium Frame with different color painting. Now stock is black color and titanic gray color.

	B Type	Arc-type (R)	New Design for you
Shape			
Surface Processing	Surface blasting, oxidation treatment, Painting Frame Standard black ,Gray,	Surface blasting , oxidation treatment, Painting Frame, Standard black ,Gray,	Surface blasting, oxidation treatment, Painting Frame, Standard black ,Gray,
Corner Materials	ABS Plastic Corner	ABS Plastic Corner	ABS Plastic Corner
Certification	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS

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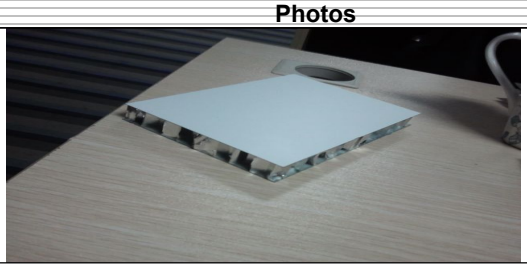
Board Material Description :

Board	Photos	Characteristc
Porcelain Board material		Surface Strong, Ceramic Surface, Anti damage, marker pen can be written with normal pen and clean easily
Standard board material		Surface hardness reach to 7H, anti-damage, can be written with normal pen and erase

Main products' Packing list(standard equipment) :

Item No	Item Photo	Quantity
Interactive Whiteboard		1PC
Accessory Carton		1CTN

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Optional Accessories：

Item No	Item Photo	Quantity
Mobile Stand		1PC
Complete Stand		1PC

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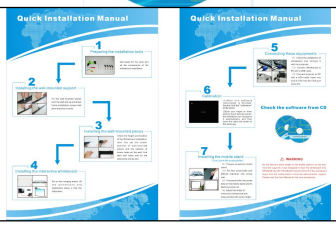
Free Accessories Packing List(Standard Equipment) :

Item No	Item Photos	Quantity
USB Cable		1PC
Installation CD		1PC
User's Manual		1PC
Wall Mount Bracket		12PCS
Bracket Screw		8PCS
Pen		4PCS
Pointer		1PC

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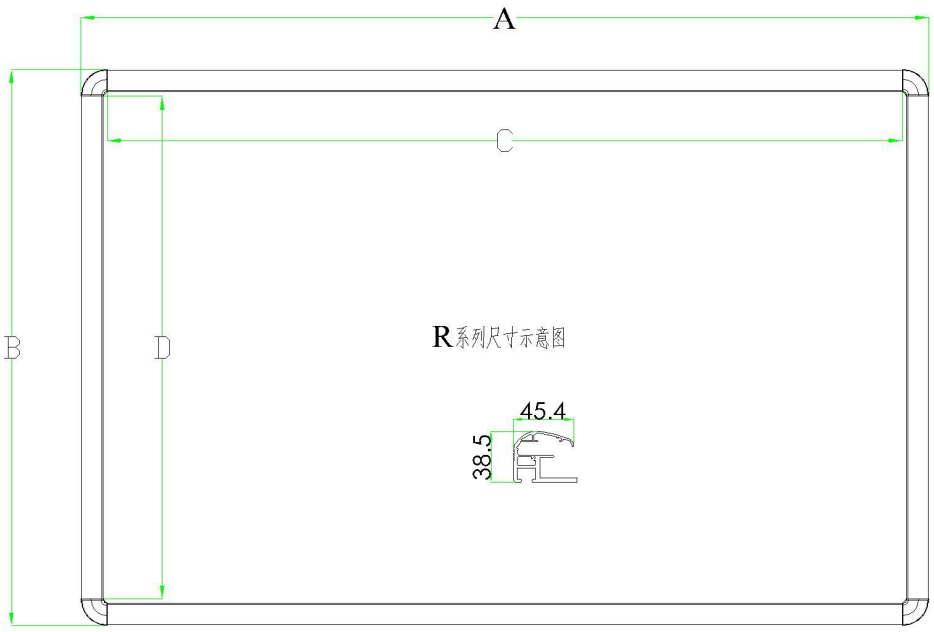
Dimension and Packing Specification：



Size(Diagonal inch)	Inside size（unit： MM)		Outsize（unit： MM)	
	R、B Series			
	Length	Width	Length	Width
	C	D	A	B
50" 4:3	982	655	1095	768
78" 4:3	1642	1232	1752	1342
82" 4:3	1642	1150	1752	1260
86" 16:10	1888	1232	1998	1342
92" 16:10	2053	1314	2163	1424
96" 4:3	1806	1314	1916	1424
104" 16:9	2299	1232	2409	1342
120" 16:10	2470	1476	2572	1588

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Hardware Specifications：

Technical Features：

Technology	Infrared technology
Writing Stylus	Pen, finger, pointer and any other opaque objects
Positioning Accuracy	Typical accuracy< 2mm
Response Object Size	﹥Ø3.0mm, recommended size：Ø5.0mm
Cursor Speed	180 d/s around
Resolution	32767*32767
Respond Speed	First dot (click): 25ms
	Continuous dots (write) : 8 ms
Lifetime of Touch Screen	Above 60,000,000 single-dot touch
Board Material	See also the chapter about board material
Installation Instruction	Wall mounting or portable floor stand (optional)
Certification	CE、FCC、RoHs
PC Port	USB 1.1, USB 2.0, USB Square connector

Power Suppy：

Power Supply	USB power supply
Voltage	DC 4.6V- 5.0V
Power Consumption	<1W (200mA at 5V)

Working Environment：

Temperature	Working temperature: -10 °C to 45 °C
	Storage temperature: -30 °C to 60 °C
Humidity	Working humidity: 10% to 90%
	Storage humidity: 0~95%
Lifetime	Over 11 years
Working Condition	Under the sun, also indoor or outdoor

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Factory test：

Sense Test	Draw lines on panel slowly without break point or skip point. (Total test)
Knock Test	Approve the test that using rubber hammer knock panel and frame. (Total test)
Illumination Test	Incandescent lamp (220V,100W)，working distance：350mm (Sampling test)
Dust Test	Approve the test that chalk dust falls on the panel irregularly (Sampling test)
High Temperature aging	Aging 48 hours continuously at 40°C -50°C (Total test)
Normal Temperature aging	Aging 12 hours continuously at 15°C -30°C (Total test)
High Humidity Test	Humidity > 9 3 %，work 8 hours continuously (Sampling test)
Labor Test	When the current is switched on，spilling 100ml of water on panel and the whiteboard works well. (Sampling test)

Computer Requirements(Only for Suggestion)：

CPU	Pentium III 800 1GHZ processor (or faster recommended)
Memory	256MB of RAM (512 MB or higher recommended) for Windows 2000, XP 512MB of RAM (1GB or higher recommended) for Windows Vista
Hard Disk	300MB free hard disk space
Display Color	16 color depth or above
Operating System	Windows XP/2003/Vista/7, Linux, Mac 10.X
Other Software Support	Microsoft 2000 or advanced (recommended installation); Internet Explorer 6 and latest Service Pack; Microsoft DirectX 9.0b or advanced Microsoft Windows Media Player 9.0 or more advanced; Adobe Acrobat Reader 5.05 or advanced.

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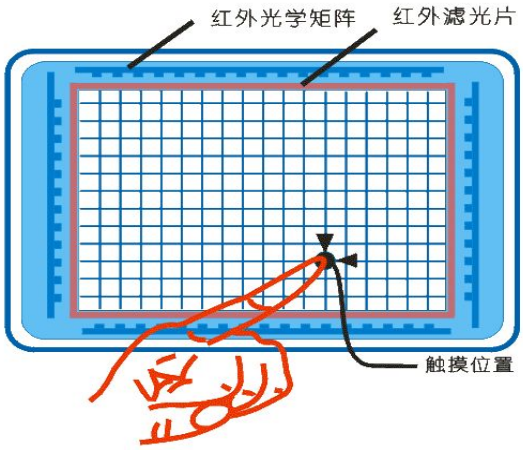
Hardware Introduction：

1、Infrared Technology

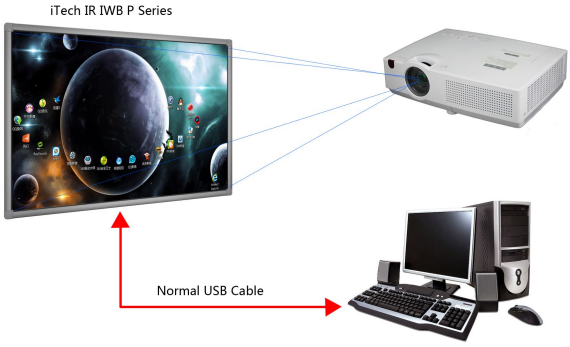
Flat-panel edges are fully surrounded by one-to-one infrared receivers and emitters forming an infrared distribution network across the whole panel, but when an opaque object (such as finger, hand with glove) touches the panel surface, it could stem the infrared rays to cause invalid signal reception or weak reception. Under such backdrop, infrared positioning technology plays its role in determining the accurate location of surface touch through analyzing the infrared-rays strength and the place of infrared devices.



The advantages of infra red technology:

1) Any object can operate, no need special pen or consumptive material.
2) The operation surface has no contact with sensors，no wear and tear, no aging, long working life，it still can work even the panel is injured.
3) The infrared technology is mature and stable. Featured anti-light, anti-dusting, water-resistant, it's best choice in some inclement environment.

2、Interactive Whiteboard System



Interactive Whiteboard, projector and computer are connected as seen on the right photo:

Interactive Whiteboard can get access to a normal computer's USB port directly through a USB cable, and display output of the computer can project on the board through a Projector，touch and mobile information from the board will be transferred into pointer click and movement of the mouse.

By software or program, all click, mobile and writing information will be displayed on the board at real time. It is extensively used in domains such as school education，training agency, conference, military affairs command，Information declaration, remote cooperation etc.

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3、Features of iTech Interactive whiteboard

- The surface of whiteboard can act as a projection screen and a writing board as well and also can be used as traditional whiteboard using water pen.
- First, as projection screen, it requires large visual angle，the image should be displayed without bright spots. (Bright spots appear when projection screen cannot diffuse reflection effectively, cannot see the projection content and do harm to eyes.)
- As writing board, it requires solid structure, no deformation, easy to clean, writing smoothly.
- To avoid bright spot does not appear，the panel surface should not smooth without diffuse reflection. If the panel needs to be writing by water pen and erase easily, the panel should smooth, the two points are incompatible.
- Interactive whiteboard provide various panel materials.

4、Software kits

Interactive whiteboard offer the user HID version which is plug and play on the computer, no need installing the driver. Meanwhile, our software ???? is a free application software primarily used in education, conferencing and other sectors, some special functions of whiteboard also requires its support.

5、Multi-touch

Multi-touch is cutting edge technology of touch technology. It means touch panel can support multi-touch and transfer to functions according to different combination. Interactive whiteboard support multi-touch, can recognize touch of two points or multi-points. And transfer to relevant functions like move, select, zoom in, zoom out.

6、Life time

Inductors surround four edges of the whiteboard only, and no contact with the writing board. Theoretically, the lift time of the whiteboard is identical to the life time of electronic components, 100, 000 hours, about 11 years.

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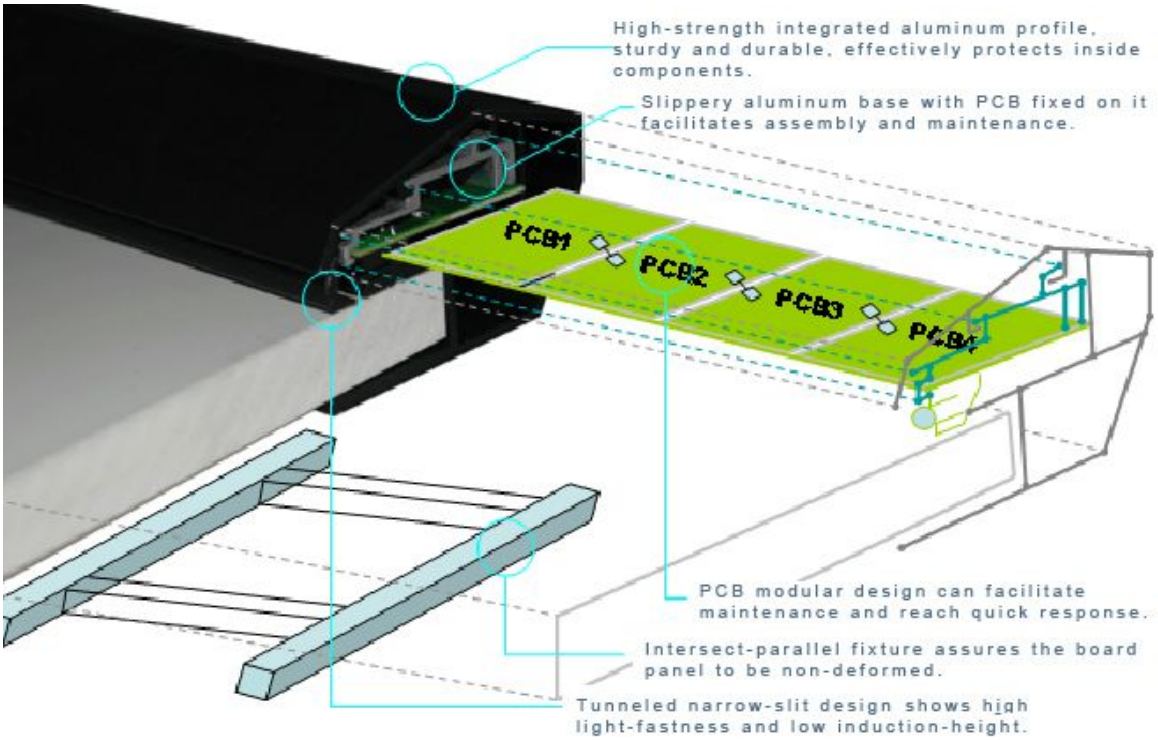
7、Modular Structure

Modular Design is proprietary technology belong to iTech solutions，modular Design means all PCB and other parts are modularized, and once one modular has problem, you may just replace it by a same new one, thus to save freight cost and time.


High-strength integrated aluminum profile, sturdy and durable, effectively protects inside components.
Slippery aluminum base with PCB fixed on it facilitates assembly and maintenance.
PCB1
PCB2
PCB3
PCB4
PCB modular design can facilitate maintenance and reach quick response.
Intersect-parallel fixture assures the board panel to be non-deformed.
Tunneled narrow-slit design shows high light-fastness and low induction-height.

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Software Features：

1、Functions of Calibration:

Calibration function	Record the right position of projection, assure the whiteboard in working order, or you can choose tablet PC adjust to try to do calibration again.

2、The Compatibility With Windows

Mouse Function	Completely instead of PC mouse to process single-click, double-click and right-click etc.
PPT Annotation	In PPT mode，annotate with pen on PPT or erase with brush.
PPT Page Turning	In PPT mode, annotate with one finger, turn to previous page or next page by two finger touch to left or up or turn to right or down.
Page Turning When Viewing Image	When viewing images，turn to previous page or next page by two finger turn to left or up or turn to right or down.
Zoom in/Zoom out When Viewing Image	When viewing images，zoom in or zoom out with two fingers slide to opposite direction
Word Annotation	Annotate in Word, and the annotation can be saved in Word.

3、The Functions of ViewBoard 6.0

Switchover Pc/writing mode	Switchover between computer mode and writing mode by one key.
Right Click	including copy,cut,Copy,Paste,Clone,Lock,Delete,Rotate,Rotate45,Rotate90,Rotate180,Rotate270,Combine,Cancel Combine, Layer Sequence, On Top, On Bottom, Move Up, Move Down, Add to Gallery, Mirror, Horizontal, Vertical, Flip, Horizontal, Vertical, Drag Copy, Hyperlink, Animation.
Page Functions	including:- page color and condition: such as color (white, green and black) pages, and pages conditions, such as: (image screen and transparent) pages ,,, etc.
Pen functions	including: Pencil, Soft Pen, Highlight Pen, Texture Pen, Brush Pen, Intelligent Pen,Laser Pen, Object Pen
Figure functions	including Line, Triangle, Rectangular Triangle, Ellipse, Round, Pentagon, Five-pointed Star, Six-angular, Rhombus, Arrows, Double Arrow, Angle, Cube, Cylinder, Cone, Rounded Rectangle, Arc, Sector,

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	Parallelogram, and others
Eraser functions	including Object Eraser, Bitmap Eraser(Small), Bitmap Eraser(Medium), photo eraser, full page clean
Insert object functions	including Insert Image, Insert Text, Insert Video, Insert Flash, Insert Office File, Insert Cover, Insert Gif image.. etc.
Recorder functions	including Record, Play, Pause, Stop, Save, Open function., recorded automatically
Page Operation functions	including Zoom In, Zoom Out, Free Move, Move Back, Undo, Redo, Page Up, Page Down, Select, Clear Page, Delete Page, Screen or Soft Page.
Auxiliary Tools	including Searchlight, Curtain, Magnifying Glass, Screen Camera, Ruler, Protractor, Compasses, Triangle Ruler, Video Camera, Fill Color, Dice, Math Tools, Handwriting
Word、 Excel notes	Annotate the opening MS-Word or MS-Excel.
Resource function	including page Resource preview, web resource, Image Resource, Text Resource, Discipline Resource, Custom Resource, Custom Tools, Add Resource etc.
Color setting	setting the color of pens and background.
Line width	setting the width of lines and objects.
Arrow Line setting	setting the Arrow line, shape and direction.
Transparency setting	setting transparency of objects.
Other functions	including select, screen or soft page, undo, redo, copy, paster, copy from internet directly, drag from the files, etc.
Main menu functions	including New File, Open File, Import File, Save Page, Save File, Save as, Print this Page, Print all Pages, Send Email, Language, Setting, Help, About, Exit.
Software Edit	Can move icons to four sides freely; can change from edit screen to full screen and change to desktop easily;

For more Software functions, pls check our Software User Manual.

Interactive Whiteboard software open to user, user can add or delete functions according to actual requirement, suit many kinds of use.

Meanwhile，Interactive Whiteboard provides software upgrade perpetually.

Feedback：
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